



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: ) Docket No: H0004601  
R. DILLEY ET AL. )  
)  
For: HEAT EXCHANGER ) Group Art Unit : To be assigned  
WITH FLOW DIRECTOR )  
)  
)  
Serial No.: 10/632590 ) Examiner: To be assigned  
)  
)  
Filed: August 1, 2003 )

INFORMATION DISCLOSURE STATEMENT

Hon. Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Hon. Commissioner:

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and pursuant to 37 C.F.R. §1.98, Applicants hereby notify the U.S. Patent of the documents listed below and identified on the attached form PTO/SB/08 for review by the Examiner during the examination of the above referenced application. Copies of the documents are provided for the Examiner's use.

The present Information Disclosure Statement is being filed (1) no later than three months from the application's filing date or (2) before the mailing date of the first Office Action on the merits (whichever is later), and therefore no certification under 37 C.F.R. §1.97(e) or fee under 37 C.F.R. §1.17 (p) is required.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on OCT. 22, 2003

(Date of Deposit)

by

Sheri N. Wilson

10/22/03  
(Date)



| U.S. PATENT DOCUMENTS |            |                    |
|-----------------------|------------|--------------------|
| US PATENT             | DATE       | NAME               |
| 1971842               | 01/15/1934 | Young              |
| 2990163               | 06/27/1961 | Farrell            |
| 3217793               | 11/16/1965 | Coe                |
| 3983932               | 10/05/1976 | Yamaguchi et al.   |
| 4574007               | 03/04/1986 | Yearout et al.     |
| 4728468               | 03/01/1988 | Duke               |
| 4905895               | 03/06/1990 | Grebe et al.       |
| 5062475               | 11/05/1991 | Bemisderfer et al. |
| 5150278               | 09/22/1992 | Lynes et al.       |
| 5209289               | 05/11/1993 | Haushalter         |
| 5211222               | 05/18/1993 | Shinmura           |
| 5505257               | 04/09/1996 | Goetz              |
| 5669438               | 09/23/1997 | Beales et al.      |
| 5927392               | 07/27/1999 | Youn et al.        |
| 6065530               | 05/23/2000 | Austin et al.      |
| 6125926               | 10/03/2000 | Okamoto et al.     |
| 6247523               | 06/19/2001 | Shibagaki et al.   |
| 6435268               | 08/20/2002 | Bhatti et al.      |
| US20020074105A1       | 06/20/2002 | Hayashi et al.     |

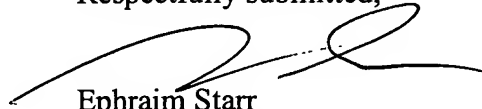
| FORTEIGN PATENT DOCUMENTS |            |                              |
|---------------------------|------------|------------------------------|
| FOREIGN PATENT            | DATE       | ASSIGNEE                     |
| JP 410331724A             | 12/15/1998 | Calsonic Corp.               |
| JP 411303689A             | 11/02/1999 | Tokyo Radiator MFG Co., Ltd. |

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicants do not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

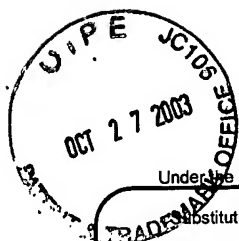
Applicants respectfully request that the listed documents be considered by the Examiner and be made of record in the present application and that an initialed copy of the Form PTO/SB/08 be returned in accordance with MPEP §609.

Date: Oct. 22, '03  
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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(Use as many sheets as necessary) | <b>Complete if Known</b> |                  |
|   | Application Number       | 10/632,590       |
|   | Filing Date              | August 1, 2003   |
|   | First Named Inventor     | R. Dilley et al. |
|   | Art Unit                 | TBD              |
|   | Examiner Name            | TBD              |
| Attorney Docket Number  | H0004601                 |                  |
| Sheet 1 of 1  |                          |                  |

| U. S. PATENT DOCUMENTS |                          |  |                                |  |   |
|------------------------|--------------------------|--|--------------------------------|--|---|
| Examiner<br>Initials*  | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                        |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                        |                          | US- 1971842                              | 01/15/1934                     | Young  |   |
|                        |                          | US- 2990163                              | 06/27/1961                     | Farrell  |   |
|                        |                          | US- 3217793                              | 11/16/1965                     | Coe  |   |
|                        |                          | US- 3983932                              | 10/05/1976                     | Yamaguchi et al.                                   |   |
|                        |                          | US- 4574007                              | 03/04/1986                     | Yearout et al.                                     |   |
|                        |                          | US- 4728468                              | 03/01/1988                     | Duke   |   |
|                        |                          | US- 4905895                              | 03/06/1990                     | Grebe et al.                                       |   |
|                        |                          | US- 5062475                              | 11/05/1991                     | Bemisderfer et al.                                 |   |
|                        |                          | US- 5150278                              | 09/22/1992                     | Lynes et al.                                       |   |
|                        |                          | US- 5209289                              | 05/11/1993                     | Haushalter   |   |
|                        |                          | US- 5211222                              | 05/18/1993                     | Shinmura   |   |
|                        |                          | US- 5505257                              | 04/09/1996                     | Goetz  |   |
|                        |                          | US- 5669438                              | 09/23/1997                     | Beales et al.                                      |   |
|                        |                          | US- 5927392                              | 07/27/1999                     | Youn et al.  |   |
|                        |                          | US- 6065530                              | 05/23/2000                     | Austin et al.                                      |   |
|                        |                          | US- 6125926                              | 10/03/2000                     | Okamoto et al.                                     |   |
|                        |                          | US- 6247523                              | 06/19/2001                     | Shibagaki et al.                                   |   |
|                        |                          | US- 6435268                              | 08/20/2002                     | Bhatti et al.                                      |   |
|                        |                          | US- 20020074105A1                        | 06/20/2002                     | Hayashi et al.                                     |   |

| FOREIGN PATENT DOCUMENTS |                          |   |                                   |  |   |                |
|--------------------------|--------------------------|---|-----------------------------------|--|---|----------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                          | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                   |  |   |                |
|                          |                          | JP 410331724 A  | 12/15/1998                        | Calsonic Corp.                                     |   |                |
|                          |                          | JP 411303689 A  | 11/02/1999                        | Tokyo Radiator                                     |   |                |
|                          |                          |   |                                   |  |   |                |
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|                       |                    |
|-----------------------|--------------------|
| Examiner<br>Signature | Date<br>Considered |
|-----------------------|--------------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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